



SEQUENCE LISTING

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<120> NOVEL VARIANTS OF RANKL PROTEIN

<130> A-71486-1

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<150> US 60/373,453

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<150> US 10/338,785

<151> 2003-01-06

<160> 3

<170> PatentIn version 3.2

<210> 1

<211> 250

<212> PRT

<213> Homo sapiens

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Phe Tyr Phe Arg Ala Gln Met Asp Pro Asn Arg Ile Ser Glu Asp Gly
1 5 10 15

Thr His Cys Ile Tyr Arg Ile Leu Arg Leu His Glu Asn Ala Asp Phe
20 25 30

Gln Asp Thr Thr Leu Glu Ser Gln Asp Thr Lys Leu Ile Pro Asp Ser
35 40 45

Cys Arg Arg Ile Lys Gln Ala Phe Gln Gly Ala Val Gln Lys Glu Leu
50 55 60

Gln His Ile Val Gly Ser Gln His Ile Arg Ala Glu Lys Ala Met Val
65 70 75 80

Asp Gly Ser Trp Leu Asp Leu Ala Lys Arg Ser Lys Leu Glu Ala Gln
85 90 95

Pro Phe Ala His Leu Thr Ile Asn Ala Thr Asp Ile Pro Ser Gly Ser
 100 105 110

His Lys Val Ser Leu Ser Ser Trp Tyr His Asp Arg Gly Trp Ala Lys
 115 120 125

Ile Ser Asn Met Thr Phe Ser Asn Gly Lys Leu Ile Val Asn Gln Asp
 130 135 140

Gly Phe Tyr Tyr Leu Tyr Ala Asn Ile Cys Phe Arg His His Glu Thr
 145 150 155 160

Ser Gly Asp Leu Ala Thr Glu Tyr Leu Gln Leu Met Val Tyr Val Thr
 165 170 175

Lys Thr Ser Ile Lys Ile Pro Ser Ser His Thr Leu Met Lys Gly Gly
 180 185 190

Ser Thr Lys Tyr Trp Ser Gly Asn Ser Glu Phe His Phe Tyr Ser Ile
 195 200 205

Asn Val Gly Gly Phe Phe Lys Leu Arg Ser Gly Glu Glu Ile Ser Ile
 210 215 220

Glu Val Ser Asn Pro Ser Leu Leu Asp Pro Asp Gln Asp Ala Thr Tyr
 225 230 235 240

Phe Gly Ala Phe Lys Val Arg Asp Ile Asp
 245 250

<210> 2
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 2

Met Gly His His His His His His Ser Ser Gly Leu Glu Val Leu Phe
 1 5 10 15

Gln Gly Pro Lys Leu Glu Ala Gln Pro Phe Ala His Leu Thr Ile Asn
 20 25 30

Ala Thr Asp Ile Pro Ser Gly Ser His Lys Val Ser Leu Ser Ser Trp
 35 40 45

Tyr His Asp Arg Gly Trp Ala Lys Ile Ser Asn Met Thr Phe Ser Asn
50 55 60

Gly Lys Leu Ile Val Asn Gln Asp Gly Phe Tyr Tyr Leu Tyr Ala Asn
65 70 75 80

Ile Cys Phe Arg His His Glu Thr Ser Gly Asp Leu Ala Thr Glu Tyr
85 90 95

Leu Gln Leu Met Val Tyr Val Thr Lys Thr Ser Ile Lys Ile Pro Ser
100 105 110

Ser His Thr Leu Met Lys Gly Gly Ser Thr Lys Tyr Trp Ser Gly Asn
115 120 125

Ser Glu Phe His Phe Tyr Ser Ile Asn Val Gly Gly Phe Phe Lys Leu
130 135 140

Arg Ser Gly Glu Glu Ile Ser Ile Glu Val Ser Asn Pro Ser Leu Leu
145 150 155 160

Asp Pro Asp Gln Asp Ala Thr Tyr Phe Gly Ala Phe Lys Val Arg Asp
165 170 175

Ile Asp

<210> 3
<211> 249
<212> PRT
<213> Mus musculus

<400> 3

Phe Leu Tyr Phe Arg Ala Gln Met Asp Pro Asn Arg Ile Ser Glu Asp
1 5 10 15

Ser Thr His Cys Phe Tyr Arg Ile Leu Arg Leu His Glu Asn Ala Gly
20 25 30

Leu Gln Asp Ser Thr Leu Glu Ser Glu Asp Thr Leu Pro Asp Ser Cys
35 40 45

Arg Arg Met Lys Gln Ala Phe Gln Gly Ala Val Gln Lys Glu Leu Gln
50 55 60

His Ile Val Gly Pro Gln Arg Phe Ser Gly Ala Pro Ala Met Met Glu
65 70 75 80

Gly Ser Trp Leu Asp Val Ala Gln Arg Gly Lys Pro Glu Ala Gln Pro
85 90 95

Phe Ala His Leu Thr Ile Asn Ala Ala Ser Ile Pro Ser Gly Ser His
100 105 110

Lys Val Thr Leu Ser Ser Trp Tyr His Asp Arg Gly Trp Ala Lys Ile
115 120 125

Ser Asn Met Thr Leu Ser Asn Gly Lys Leu Arg Val Asn Gln Asp Gly
130 135 140

Phe Tyr Tyr Leu Tyr Ala Asn Ile Cys Phe Arg His His Glu Thr Ser
145 150 155 160

Gly Ser Val Pro Thr Asp Tyr Leu Gln Leu Met Val Tyr Val Val Lys
165 170 175

Thr Ser Ile Lys Ile Pro Ser Ser His Asn Leu Met Lys Gly Gly Ser
180 185 190

Thr Lys Asn Trp Ser Gly Asn Ser Glu Phe His Phe Tyr Ser Ile Asn
195 200 205

Val Gly Gly Phe Phe Lys Leu Arg Ala Gly Glu Glu Ile Ser Ile Gln
210 215 220

Val Ser Asn Pro Ser Leu Leu Asp Pro Asp Gln Asp Ala Thr Tyr Phe
225 230 235 240

Gly Ala Phe Lys Val Gln Asp Ile Asp
245